	Application No.	Applicant(s)	-
Notice of Allowability			
	09/759,805 Examiner	GROTE ET AL.	
•			
	David H Kruse	1638	
The MAILING DATE f this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS	'e
1. This communication is responsive to the Amendment filed			
2. The allowed claim(s) is/are <u>1-4, 63-67 and 83-91, renumber</u>			
3. The drawings filed on are accepted by the Examine		,	
 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d)	or (†).	
 Certified copies of the priority documents have 	e been received.		
Certified copies of the priority documents have	· .		
Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority u reference was included in the first sentence of the specifica (a) The translation of the foreign language provisional a 6. Acknowledgment is made of a claim for domestic priority u in the first sentence of the specification or in an Application	ation or in an Application Da application has been received ander 35 U.S.C. §§ 120 and	ata Sheet. 37 CFR 1.78. ed. /or 121 since a specific reference was included	d
Applicant has THREE MONTHS FROM THE "MAILING DATE" or below. Failure to timely comply will result in ABANDONMENT of	f this communication to file this application. THIS TH	a reply complying with the requirements noted REE-MONTH PERIOD IS NOT EXTENDABLE	I Ξ
7. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			
 8. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing of the including changes required by the attached Examiner 	correction filed, whi	ch has been approved by the Examiner.	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on	the drawings in the front (not the back) of	
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T			
Attachm nt(s)			
1☐ Notice of References Cited (PTO-892)	5 Notice of In	formal Patent Application (PTO-152)	
2 Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), Paper No. <u>lZ/03</u> .	
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No	^{3),} 7⊠ Examiner's	Amendment/Comment	
4⊠ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8∏ Examiner's 9∏ Other	Statement of Reasons for Allowance	
	,		

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR § 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lila Akrad on 18 December 2003.

The application has been amended as follows:

The Title of the invention has been amended as follows;

HYBRID MAIZE PLANT [&] AND SEED X1069G

The Abstract of the Invention has been replaced with the following;

-- This invention relates to a hybrid maize plant, designated as X1069G, produced by crossing two Pioneer Hi-Bred International, Inc inbred maize lines GE535769 and GE515721. This invention thus relates to the hybrid seed X1069G, the hybrid plant produced from the seed, and variants and trivial modifications of hybrid X1069G. This invention also relates to methods for producing a X1069G hybrid maize plant containing genetic material for one or more desirable traits and to the maize plant produced by that method. This invention further relates to methods for making maize lines produced from hybrid maize line X1069G. --

The claims have been amended as follows:

Claim 84 (amended): A method of introducing a desired trait into a hybrid maize line X1069G comprising:

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- (a) crossing at least one of inbred maize parent plants GE535769 and GE515721, representative [samples] seed of which have been deposited under ATCC Accession Nos. as ____ and ___ respectively, with another maize line that comprises a desired trait, to produce F1 progeny plants, wherein the desired trait is selected from the group consisting of male sterility, herbicide resistance, insect resistance, disease resistance and waxy starch;
- (b) selecting said F1 progeny plants that have the desired trait to produce selected F1 progeny plants;
- (c) backcrossing the selected progeny plants with said inbred maize parent plant to produce backcross progeny plants;
- (d) selecting for backcross progeny plants that have the desired trait and morphological and physiological characteristics of said inbred maize parent plant to produce selected backcross progeny plants;
- (e) repeating the steps [of backcrossing to said inbred maize parent plant] (c) and (d) three or more times in succession to produce <u>a</u> selected fourth or higher backcross progeny plant[s]; <u>and</u>
- (f) crossing said <u>fourth or higher</u> backcross progeny plant with the other inbred maize parent plant to [generate] <u>produce</u> a hybrid maize line X1069G with the desired trait and all of the morphological and physiological characteristics of hybrid maize line X1069G listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

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Claim 89 (amended): A method of modifying fatty acid metabolism, phytic acid metabolism or carbohydrate metabolism in a hybrid maize line X1069G comprising:

- (a) crossing at least one of inbred maize parent plants GE535769 and GE515721, representative [samples] seed of which have been deposited under ATCC Accession Nos. as ____ and ___ respectively, with another maize line that comprises a nucleic acid molecule encoding an enzyme selected from the group consisting of phytase, steryl-ACP desaturase, fructosyltransferase, levansucrase, alpha-amylase, invertase and starch branching enzyme;
- (b) selecting said F1 progeny plants that have the desired trait to produce selected F1 progeny plants;
- (c) backcrossing the selected progeny plants with said inbred maize parent plant to produce backcross progeny plants;
- (d) selecting for backcross progeny plants that have the desired trait and morphological and physiological characteristics of said inbred maize parent plant to produce selected backcross progeny plants;
- (e) repeating the steps [of backcrossing to said inbred maize parent plant] (c) and (d) three or more times in succession to produce a selected fourth or higher backcross progeny plant[s]; and
- (f) crossing said <u>fourth or higher</u> backcross progeny plant with the other inbred maize parent plant to [generate] <u>produce</u> a hybrid maize line X1069G with the desired trait and all of the morphological and physiological characteristics of hybrid maize line

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X1069G listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

Claim 90 (amended): A plant produced by the method of claim 89, wherein the plant [has modified fatty acid metabolism, modified phytic acid metabolism or modified carbohydrate metabolism] comprises the nucleic acid molecule and all of the physiological and morphological characteristics of hybrid maize line X1069G listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

2. Applicant is reminded that upon the issuance of a Notice of Allowability, the requirements under 37 C.F.R § 1.809 (c)-(e) must be perfected in the instant application prior to or at the time of payment of the issue fee.

REQUIREMENT OF ALLOWANCE UNDER 37 CFR §§ 1.801-1.809

The Deposit Statement in the specification is deemed in accordance with 37 CFR §§ 1.801-1.809. Since the application is otherwise in condition for allowance except for the needed deposit of seed, and since the Office has received written assurance that an acceptable deposit will be made on or before payment of the issue fee, the Office is authorized to mail Applicant a Notice of Allowance and Issue Fee Due together with a requirement that the needed deposit be made within THREE (3) MONTHS of the mail date of this letter (see 37 CFR § 1.809(c)).

As set forth in 37 CFR § 1.809(c), Applicant is required to deposit 2500 seeds of the claimed plant within THREE (3) MONTHS of the mail date of this letter; thus the time for making the deposit is on or before the payment of the issue fee.

Applicant is reminded that once the deposit of seed has been made, information regarding the date of deposit, description of the deposited material including number of seeds deposited, name and address of the depository, and the accession number must be added to the specification in order to comply with 37 CFR § 1.809(d). In addition, the

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claims must be amended to replace the blank "_____ " with the appropriate Accession Number. Amendments to the specification and the claims must be filed under 37 CFR § 1.312.

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Kruse, Ph.D. whose telephone number is (703) 306-4539, (571) 272-0799 after 6 January 2004. The examiner can normally be reached on Monday to Friday from 8:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Amy Nelson can be reached at (703) 306-3218, **(571) 272-0804 after 6 January 2004**. The fax telephone number for this Group is (703) 872-9306 Before Final or (703) 872-9307 After Final.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group Receptionist whose telephone number is (703) 308-0196.

AMY J. NELSON, PH. D. SUPERVISORY PATENT EXAMMER

Any Nelson

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TECHNOLOGY CENTER 1600

David H. Kruse, Ph.D. 18 December 2003